

**Grizzly**  
**Industrial, Inc.**®



**WWW.GRIZZLY.COM**

**MINI GRINDER KIT**

**MODEL G8601**

**INSTRUCTION MANUAL**



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1821 VALENCIA ST., BELLINGHAM, WA 98227

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# **WARNING!**

**Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemical are:**

- **Lead from lead-based paints.**
- **Crystalline silica from bricks, cement and other masonry products.**
- **Arsenic and chromium from chemically-treated lumber.**

**Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.**

# SAFETY

## **WARNING**

### **For Your Own Safety Read Instruction Manual Before Operating This Equipment**

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices.



This symbol is used to alert the user to useful information about proper operation of the equipment.

## **WARNING**

### **Safety Instructions For Power Tools**

- KEEP ALL SAFETY DEVICES IN PLACE** and in working order.
- REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
- KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.
- KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.
- MAKE WORK SHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
- DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.

# WARNING

## Safety Instructions For Power Tools

- 9. USE PROPER EXTENSION CORD** for the charger. Make sure your extension cord is in good condition. Conductor size should be in accordance with the chart below. The amperage rating should be listed on the motor or tool nameplate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Your extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords if they become damaged.

Minimum Gauge for Extension Cords

AMP RATING	LENGTH		
	25ft	50ft	100ft
0-6	18	16	16
7-10	18	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No

- 10. WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- 11. ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- 12. SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- 13. DON'T OVERREACH.** Keep proper footing and balance at all times.
- 14. MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 15. DISCONNECT TOOLS** before servicing and changing accessories, such as blades, bits, cutters, and the like.
- 16. REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.
- 17. USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 18. CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 19. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.

# ADDITIONAL SAFETY INSTRUCTIONS

## FOR GRINDERS

### **WARNING**

- 1. KEEP HANDS AWAY FROM ROTATING PARTS.** Never attempt to adjust or stop a tool which has been mounted on the grinder shaft when the tool is turning.
- 2. HOLD THE TOOL FIRMLY.** Always brace yourself against the rotational force of the turning shaft to avoid slipping the tool and possibly causing cuts or abrasions.
- 3. NEVER USE WATER OR OTHER LUBRICANTS** with the grinding tools in this kit. Moisture greatly increases the risk of a shock hazard.
- 4. WATCH OUT FOR FLYING SPARKS.** Hold the tool so that any sparks created will fly in the opposite direction from you or other flammable materials.
- 5. DO NOT TOUCH THE WORKPIECE IMMEDIATELY AFTER OPERATION.** The workpiece surface will be hot from the grinding process and may burn your skin.
- 6. BEFORE APPLYING ONE OF THE ACCESSORY TOOL HEADS TO THE WORKPIECE,** run the tool freely for a minute or two and check to be sure there is no wobble or excessive vibration.
- 7. ONLY USE GRINDING WHEELS** which have been rated for an operating speed which is equal to or greater than the highest speed of this tool.
- 8. WHEN USING GRINDING WHEELS,** always check the wheel for cracks or other damage. Never use a wheel with signs of damage as it could fly apart during the grinding process and cause injury.
- 9. ALWAYS UNPLUG THE TOOL WHEN NOT IN USE.**

### **WARNING**

Operating this equipment has the potential to propel debris into the air which can cause eye injury. Always wear safety glasses or goggles when operating equipment. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).

# OPERATION

## Inserting Attachments

Your kit comes with a large variety of different attachments ranging from grinding stones, sanding discs and sleeves, buffing pads and carving tools. There are two different collet sizes,  $\frac{7}{64}$ " and  $\frac{1}{8}$ " diameter.

Some of the cutting wheels, polishing tips and other accessories need to be attached or inserted into another shaft or mandrel in order to be used. If you are using one of these, first thread the accessory onto the shaft.

Depending on the accessory you select to use, match the collet to that accessory. You can do this easily by slipping the collet onto the shaft of the accessory and choose the one with the closest fit. Insert the collet into the end of the grinder shaft, then thread the collet nut onto the shaft. **See Figure 1.** Next insert the shaft of the accessory into the collet. Tighten the collet nut, first by hand until it is snug.

Now push the shaft lock button down while turning the shaft until you feel the lock snap into place. Keeping the button depressed with one finger, take the supplied collet wrench and do a final tightening of the collet nut. Do not apply excessive force, just enough to keep the accessory from turning while you are applying it to the workpiece.

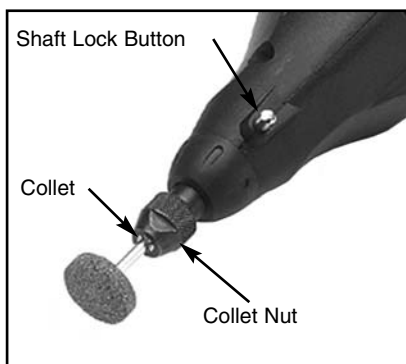


Fig 1. Using bit extension.

## OPERATION

For most uses it is helpful to grasp the tool much like you would a pencil. This will allow the finest control of the tool. Before starting on your actual workpiece, practice a similar action (drilling, grinding, sanding, carving, polishing) on a scrap piece to get the feel of the forces the tool will generate, and the force you need to apply to achieve the desired result.

During this practice, determine which speed setting will give you the best result. There is a switch just above the ON/OFF switch which selects the speed. There are four speed settings available - 6500, 10700, 14000, and 22000.

For most jobs the grinder can be used at the highest speed. Some materials melt at lower temperatures and should be cut at lower speeds to generate less friction and heat. Hard materials like iron, steel or stone should generally be worked on using the higher speeds.

Turn the grinder on using the rocker switch which has the "I/O" marking. Off is designated by the "O", on by the "I".

# OPERATING TIPS AND MAINTENANCE

## Operating Tips

**Avoid overloading the grinder.** Do not apply excessive pressure to the grinder while using. If the speed drops abnormally, decrease pressure immediately. If the grinder stops abruptly or becomes blocked, release the switch at once.

**Ensure the safety of the workplace.** Clear the work area of all parts and debris that may cause injury by flying objects. Securely fix the object to be worked on in a vise or otherwise clamp to avoid injury. Do not attempt to hold workpiece by hand.

**Inspect the grinder before use.** Run the grinder before using to ensure all parts are running smoothly and there are no abnormal sounds or sparks. If any defect is found, have unit serviced.

**Use accessories properly.** Choose the accessory you need carefully.

## Maintenance

Your Mini Grinder tool will give you hundreds of hours of operation time before ever needing service. The electrical components of this cordless drill are not user serviceable. Repair should always be undertaken by a qualified electrical repair technician.

Keep the grinder free from dirt, grease and moisture. Always store it in a dry place, preferably in the case that is supplied.

### **WARNING**

**Disassembly and improper reassembly of this device can result in electrical shock danger. Always have this device serviced by an qualified electrical repair technician. Serious injury will result.**

## WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number", which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

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# WARRANTY CARD

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone Number \_\_\_\_\_ E-Mail \_\_\_\_\_ FAX \_\_\_\_\_

**MODEL #** G8601 Mini Grinder Kit Order \_\_\_\_\_

The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. Of course, all information is strictly confidential.

- How did you learn about us?  
 Advertisement       Friend  
 Catalog       Card Deck  
 World Wide Web  
 Other \_\_\_\_\_
- What is your annual household income?  
 \$20,000-\$29,999       \$60,000-\$69,999  
 \$30,000-\$39,999       \$70,000-\$79,999  
 \$40,000-\$49,999       \$80,000-\$89,999  
 \$50,000-\$59,999       \$90,000 +
- What is your age group?  
 20-29       50-59  
 30-39       60-69  
 40-49       70 +
- How long have you been a woodworker?  
 0 - 2 Years       8 - 20 Years  
 2 - 8 Years       20+ Years
- How would you rank your woodworking skills?  
 Simple       Advanced  
 Intermediate       Master Craftsman
- What stationary woodworking tools do you own? Check all that apply.  
 Air Compressor       Panel Saw  
 Band Saw       Planer  
 Drill Press       Power Feeder  
 Drum Sander       Radial Arm Saw  
 Dust Collector       Shaper  
 Spindle Sander       Jointer  
 Table Saw       Lathe  
 Mortiser       Wide Belt Sander  
 Horiz.Boring Machine  
 Vacuum Veneer Press  
 Other \_\_\_\_\_
- How many of your woodworking machines are Grizzly? \_\_\_\_\_
- Which benchtop tools do you own? Check all that apply.  
 1"x42" Belt Sander       6" - 8" Grinder  
 5" - 8" Drill Press       Mini Lathe  
 8" Table Saw       8" - 10" Bandsaw  
 Scroll Saw       Disc/Belt Sander  
 Spindle/Belt Sander       Mini Jointer
- \_\_\_\_\_ 10"-12"Thickness Planer  
 Other \_\_\_\_\_
- How many of the machines checked above are Grizzly? \_\_\_\_\_
- Which portable/hand held power tools do you own? Check all that apply.  
 Belt Sander       Orbital Sander  
 Biscuit Joiner       Palm Sander  
 Circular Saw       Portable Planer  
 Detail Sander       Saber Saw  
 Drill/Driver       Reciprocating Saw  
 Miter Saw       Router  
 Other \_\_\_\_\_
- What machines/supplies would you like Grizzly Industrial to carry?  
 12" Table Saw       Radial Arm Saw  
 12" Jointer       Panel Saw  
 Brass Hardware       Lumber  
 Paint & Finishing Supplies  
 Contractor's Supplies  
 Combination Planer/Jointer  
 Other \_\_\_\_\_
- What new accessories would you like Grizzly Industrial to carry?  
 Builders Hardware       Hand Tools  
 Fasteners  
 Wood Components  
 Other \_\_\_\_\_
- What other companies do you purchase your tools and supplies from?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Do you think your purchase represents good value?  
 Yes       No
- Would you recommend Grizzly to a friend?  
 Yes       No
- Would you allow us to use your name as a reference for Grizzly customers in your area? **Note: We never use names more than three times.**  
 Yes       No
- Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Send a Grizzly Catalog to a friend:

Name_____
Street_____
City_____State_____Zip_____

FOLD ALONG DOTTED LINE

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**GRIZZLY INDUSTRIAL, INC.**  
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